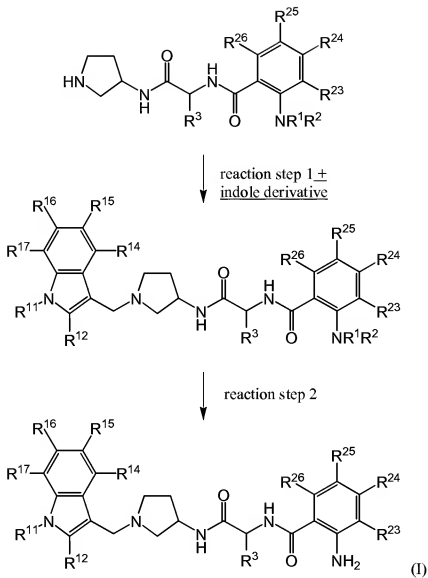


AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A ~~producing~~ method for producing aminopyrrolidine derivatives of formula (I), or salts thereof, comprising reaction steps 1 and 2, wherein the indole derivative in reaction step 1 is not substituted at the 3-position in the presence of a synthon of formaldehyde represented by the following reaction formula (I) and wherein with the proviso that reaction step 2 is unnecessary if both R¹ and R² are hydrogen;



wherein

R¹ and R² represent independently hydrogen or a protecting group for amino group
(wherein R¹ and R² may, taken together, form a cyclic structure);

R³ represents hydrogen or C₁–C₆ alkyl;

R¹¹ represents hydrogen, C₁–C₆ alkyl or C₂–C₇ alkanoyl;

R^{12} , R^{14} , R^{15} , R^{16} and R^{17} represent independently hydrogen, halogen, optionally halogenated C_1-C_6 alkyl, optionally halogenated C_1-C_6 alkoxy, hydroxyl or C_2-C_7 alkoxycarbonyl; and

R^{23} , R^{24} , R^{25} and R^{26} represent independently hydrogen, halogen, optionally halogenated C_1-C_6 alkyl, optionally halogenated C_1-C_6 alkoxy or hydroxyl; and

wherein the synthon of formaldehyde is at least one selected from the group consisting of formalin, paraformaldehyde and trioxane.

2. (original): The production method according to claim 1, wherein the protecting group for amino group as R^1 or R^2 is methoxycarbonyl, *t*-butoxycarbonyl, benzyloxycarbonyl, allyloxycarbonyl, formyl, acetyl, benzoyl, methyl, ethyl, allyl, benzenesulfonyl or phthaloyl, wherein, when said protecting group for amino group contains an aromatic ring, the aromatic ring may be optionally substituted with one or more of nitro, amino, C_1-C_6 alkyl, C_1-C_6 alkoxy or halogen.

3. (original): The production method according to claim 1, wherein either of R^1 and R^2 is hydrogen and the other is *t*-butoxycarbonyl.

4. (canceled).

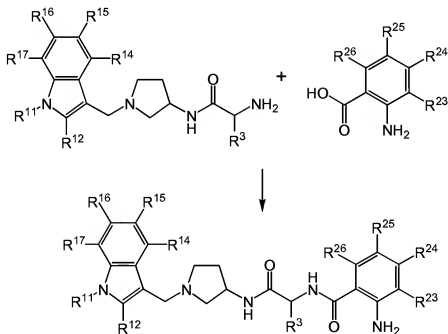
5. (canceled).

6. (canceled).

7. (previously presented): The production method according to claim 1, wherein reaction step 2 is removal of the protection group for the amino group by acid hydrolysis.

8. (previously presented): The production method according to claim 1, wherein reaction step 2 involves treatment with hydrogen chloride in organic solvent.

9. (currently amended): A method for producing aminopyrrolidine derivatives or salts thereof, comprising a condensation step represented by the following reaction formula (II), wherein the condensation step is performed by treatment with an anthranilic acid derivative in ~~a mixed solvent of aprotic solvent and C₁₋₃ alcohol solvent~~ in the presence of a condensing agent:



(II)

wherein

R^3 represents hydrogen or C_1-C_6 alkyl;

R^{11} represents hydrogen, C_1-C_6 alkyl or C_2-C_7 alkanoyl;

R^{12} , R^{14} , R^{15} , R^{16} and R^{17} represent independently hydrogen, halogen, optionally halogenated C_1-C_6 alkyl, optionally halogenated C_1-C_6 alkoxy, hydroxyl or C_2-C_7 alkoxycarbonyl; and

R^{23} , R^{24} , R^{25} and R^{26} represent independently hydrogen, halogen, optionally halogenated C_1-C_6 alkyl, optionally halogenated C_1-C_6 alkoxy or hydroxyl.

10. (original): The production method according to claim 9, wherein the condensing agent is one or more of a compound selected from 1,3-dicyclohexylcarbodiimide, isobutyl chloroformate, pivaloyl chloride, isovaleryl chloride, 1-ethyl-3-(3-dimethylaminopropyl)carbodiimide, 1-cyclohexyl-3-morpholinoethylcarbodiimide, 1-cyclohexyl-3-(4-diethylaminocyclohexyl)carboximide, N,N' -carbonyldiimidazole and 2-chloro-1,3-dimethylimidazolinium chloride.

11. (original): The production method according to claim 9, wherein the condensing agent is 1-ethyl-3-(3-dimethylaminopropyl)carbodiimide hydrochloride.

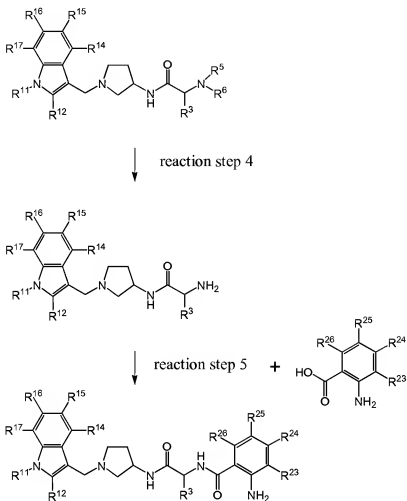
12. (previously presented): The production method according to claim 9, wherein, in said condensation step, are additionally used one or more of an additive selected from *p*-nitrophenol, hydroxysuccinimide, hydroxyphthalimide, 1-hydroxy-1,2,3-benzotriazole, 3-hydroxy-4-oxo-3,4-

dihydro-1,2,3-benzotriazine, *N*-hydroxy-5-norbornene-2,3-dicarboximide and ethyl 2-hydroxyimino-2-cyanoacetate.

13. (previously presented): The production method according to claim 9, wherein, in said condensation step, 1-hydroxy-1,2,3-benzotriazole is additionally used as an additive.

14. (previously presented): The production method according to claim 9, wherein, in said condensation step, triethylamine is additionally used.

15. (previously presented): The production method according to claim 9, which further comprises a deprotection step represented by the following reaction step 4:



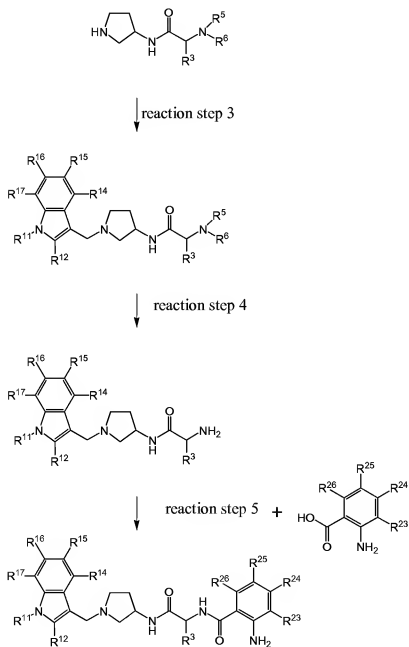
wherein R^3 , R^{11} , R^{12} , R^{14} , R^{15} , R^{16} , R^{17} , R^{23} , R^{24} , R^{25} and R^{26} are as defined in reaction formula (II);

R^5 and R^6 represent independently hydrogen or a protecting group for amino group (wherein R^5 and R^6 may, taken together, form a cyclic structure) except for the case where R^5 and R^6 are simultaneously hydrogen.

16. (original): The production method according to claim 15, wherein said reaction step 4 involves treatment with hydrogen chloride in organic solvent.

17. (previously presented): The production method according to claim 15, which further comprises an introduction step of an indole derivative represented by the following reaction step

3:



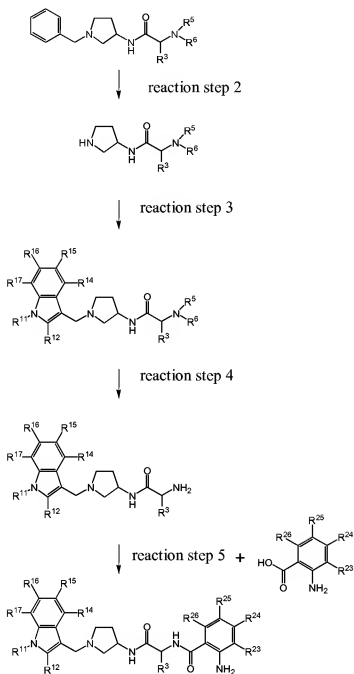
wherein R³, R⁵, R⁶, R¹¹, R¹², R¹⁴, R¹⁵, R¹⁶, R¹⁷, R²³, R²⁴, R²⁵ and R²⁶ are as defined above.

18. (currently amended): The production method according to claim 17, wherein said reaction step 3 is reaction of an indole derivative having no substituent at the 3-position in the presence of a synthon of formaldehyde selected from the group consisting of formalin, paraformaldehyde and trioxane.

19. (original): The production method according to claim 18, wherein the synthon of formaldehyde is formalin.

20. (original): The production method according to claim 17, wherein said reaction step 3 is reaction of an indole derivative substituted with a dialkylaminomethyl group at the 3-position.

21. (previously presented): The production method according to claim 17, which further comprises a removal step of a benzyl group represented by the following reaction step 2:

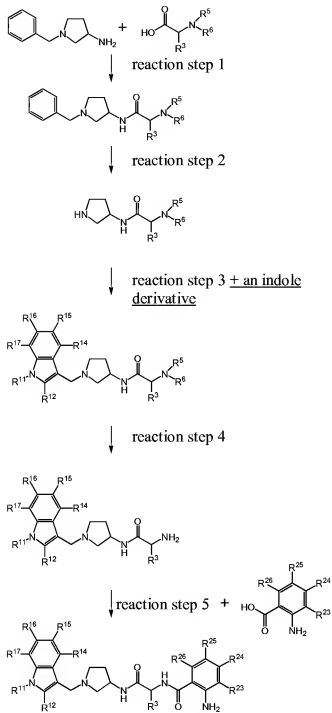


wherein R^3 , R^5 , R^6 , R^{11} , R^{12} , R^{14} , R^{15} , R^{16} , R^{17} , R^{23} , R^{24} , R^{25} and R^{26} are as defined above.

22. (original): The production method according to claim 21, wherein, in said reaction step 2, a hydrogen source is used in the presence of palladium catalyst.

23. (original): The production method according to claim 22, wherein the hydrogen source is gaseous hydrogen.

24. (currently amended): The production method according to claim 21, which further comprises a condensation step with an amino acid derivative represented by the following reaction step 1:



wherein R³, R⁵, R⁶, R¹¹, R¹², R¹⁴, R¹⁵, R¹⁶, R¹⁷, R²³, R²⁴, R²⁵ and R²⁶ are as defined above.

25. (original): The production method according to claim 24, wherein, in said reaction step 1, are used one or more of a condensing agent selected from 1,3-dicyclohexylcarbodiimide, isobutyl chloroformate, pivaloyl chloride, isovaleryl chloride,

1-ethyl-3-(3-dimethylaminopropyl)carbodiimide, 1-cyclohexyl-3-morpholinoethylcarbodiimide, 1-cyclohexyl-3-(4-diethylaminocyclohexyl)carboximide, *N,N'*-carbonyldiimidazole and 2-chloro-1,3-dimethylimidazolinium chloride.

26. (original): The production method according to claim 24, wherein, in said reaction step 1, 1-ethyl-3-(3-dimethylaminopropyl)carbodiimide is used as a condensing agent.

27. (previously presented): The production method according to claim 24, wherein, in said reaction step 1, are additionally used one or more of an additive selected from *p*-nitrophenol, hydroxysuccinimide, hydroxyphthalimide, 1-hydroxy-1,2,3-benzotriazole, 3-hydroxy-4-oxo-3,4-dihydro-1,2,3-benzotriazine, *N*-hydroxy-5-norbornene-2,3-dicarboximide and ethyl 2-hydroxyimino-2-cyanoacetate.

28. (previously presented): The production method according to claim 24, wherein, in said reaction step 1, 1-hydroxy-1,2,3-benzotriazole is additionally used as an additive.

29. (previously presented): The production method according to claim 24, wherein, in said reaction step 1, triethylamine is additionally used.

30. (previously presented): The production method according to claim 15, wherein the protecting group for amino group as R⁵ and R⁶ is methoxycarbonyl, *t*-butoxycarbonyl, benzyloxycarbonyl, allyloxycarbonyl, formyl, acetyl, benzoyl, methyl, ethyl, allyl, benzenesulfonyl or phthaloyl, wherein, when said protecting group for the amino group contains an aromatic ring, the aromatic ring may be optionally substituted with one or more of nitro, amino, C₁–C₆ alkyl, C₁–C₆ alkoxy or halogen.

31. (previously presented): The production method according to claim 15, wherein either of R⁵ and R⁶ is hydrogen and the other is *t*-butoxycarbonyl.

32. (previously presented): The production method according to claim 1, wherein R³ is hydrogen.

33. (previously presented): The production method according to claim 1, wherein R¹¹, R¹², R¹⁴, R¹⁵ and R¹⁷ are all hydrogen.

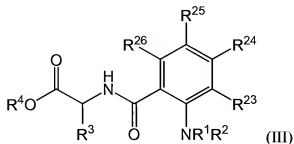
34. (previously presented): The production method according to claim 1, wherein R¹⁶ is methyl.

35. (previously presented): The production method according to claim 1, wherein R²³, R²⁴ and R²⁶ are all hydrogen.

36. (previously presented): The production method according to claim 1, wherein R²⁵ is trifluoromethoxy.

37. (currently amended): A compound or a salt thereof represented by the following formula

(III):



wherein

R^1 is hydrogen and R^2 represent independently hydrogen or is a protecting group for an amino group, or R^1 is a protecting group for an amino group and R^2 is hydrogen for amino group
(wherein R^1 and R^2 may, taken together, form a cyclic structure);

R^3 represents hydrogen or C_1-C_6 alkyl;

R^4 represents hydrogen or C_1-C_6 alkyl;

R^{23} , R^{24} , R^{25} and R^{26} represent independently hydrogen, halogen, optionally halogenated C_1-C_6 alkyl, optionally halogenated C_1-C_6 alkoxy or hydroxyl.

38. (original): The compound or a salt thereof according to claim 37, wherein said protecting group of amino group as R^1 and R^2 is methoxycarbonyl, *t*-butoxycarbonyl, benzyloxycarbonyl, allyloxycarbonyl, formyl, acetyl, benzoyl, methyl, ethyl, allyl, benzenesulfonyl or phthaloyl, wherein, when said protecting group for the amino group contains an aromatic ring, the aromatic ring may be substituted with one or more of nitro, amino, C_1-C_6 alkyl, C_1-C_6 alkoxy or halogen.

39. (original): The compound or a salt thereof according to claim 37, wherein either of R^1 and R^2 is hydrogen and the other is hydrogen, *t*-butoxycarbonyl or benzyloxycarbonyl.

40. (previously presented): The compound or a salt thereof according to claim 37, wherein R^3 is hydrogen.

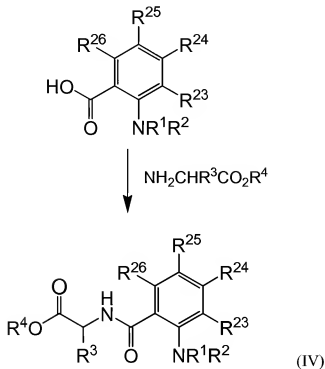
41. (previously presented): The compound or a salt thereof according to claim 37, wherein R^4 is hydrogen.

42. (previously presented): The compound or a salt thereof according to claim 37, wherein R^{23} , R^{24} and R^{26} are all hydrogen.

43. (previously presented): The compound or a salt thereof according to claim 37, wherein R^{25} is C_1 – C_6 alkoxy substituted with halogen.

44. (previously presented): The compound or a salt thereof according to claim 37, wherein R^{25} is trifluoromethoxy.

45. (currently amended): A ~~production method for producing of~~ an anthranilamide derivative of formula (IV), or a salt thereof, comprising ~~a the following~~ reaction step ~~represented by the following formula (IV):~~



wherein:

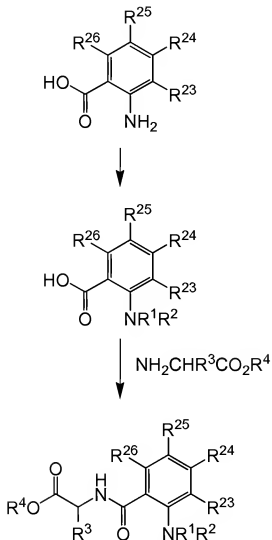
R¹ and R² represent independently hydrogen or a protecting group for amino group (wherein R¹ and R² may, taken together, form a cyclic structure);

R³ represents hydrogen or C₁-C₆ alkyl;

R⁴ represents hydrogen or C₁-C₆ alkyl;

R²³, R²⁴, R²⁵ and R²⁶ represent independently hydrogen, halogen, optionally halogenated C₁-C₆ alkyl, optionally halogenated C₁-C₆ alkoxy or hydroxyl.

46. (original): The production method according to claim 45 which further comprises a reaction step represented by the first step in the following reaction formula:



wherein R^1 , R^2 , R^3 , R^4 , R^{23} , R^{24} , R^{25} and R^{26} are as defined above.

47. (previously presented): The production method according to claim 45, wherein the protecting group for amino group as R^1 or R^2 is methoxycarbonyl, *t*-butoxycarbonyl, benzyloxycarbonyl, allyloxycarbonyl, formyl, acetyl, benzoyl, methyl, ethyl, allyl, benzenesulfonyl or phthaloyl, wherein, when said protecting group for the amino group contains

an aromatic ring, the aromatic ring may be substituted with one or more of nitro, amino, C₁–C₆ alkyl, C₁–C₆ alkoxy or halogen.

48. (previously presented): The production method according to claim 45, wherein either of R¹ and R² is hydrogen and the other is hydrogen, *t*-butoxycarbonyl or benzyloxycarbonyl.

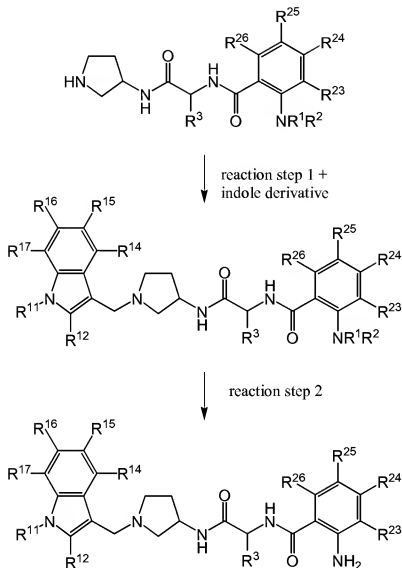
49. (previously presented): The production method according to claim 45, wherein R³ is hydrogen.

50. (previously presented): The production method according to claim 45, wherein R²³, R²⁴ and R²⁶ are all hydrogen.

51. (previously presented): The production method according to claim 45, wherein R²⁵ is C₁–C₆ alkoxy substituted with halogen.

52. (previously presented): The production method according to claim 45, wherein R²⁵ is trifluoromethoxy.

53. (new): A method for producing aminopyrrolidine derivatives of formula (I), or salts thereof, comprising reaction steps 1 and 2, wherein the indole derivative in reaction step 1 has a dialkylaminomethyl group at the 3-position and wherein reaction step 2 is unnecessary if both R¹ and R² are hydrogen:



wherein

R¹ and R² represent independently hydrogen or a protecting group for amino group
(wherein R¹ and R² may, taken together, form a cyclic structure);

R³ represents hydrogen or C₁-C₆ alkyl;

R¹¹ represents hydrogen, C₁-C₆ alkyl or C₂-C₇ alkanoyl;

R^{12} , R^{14} , R^{15} , R^{16} and R^{17} represent independently hydrogen, halogen, optionally halogenated C_1-C_6 alkyl, optionally halogenated C_1-C_6 alkoxy, hydroxyl or C_2-C_7 alkoxycarbonyl; and

R^{23} , R^{24} , R^{25} and R^{26} represent independently hydrogen, halogen, optionally halogenated C_1-C_6 alkyl, optionally halogenated C_1-C_6 alkoxy or hydroxyl.

54. (new): The production method according to claim 53, wherein the protecting group for amino group as R^1 or R^2 is methoxycarbonyl, *t*-butoxycarbonyl, benzyloxycarbonyl, allyloxycarbonyl, formyl, acetyl, benzoyl, methyl, ethyl, allyl, benzenesulfonyl or phthaloyl, wherein, when said protecting group for amino group contains an aromatic ring, the aromatic ring may be optionally substituted with one or more of nitro, amino, C_1-C_6 alkyl, C_1-C_6 alkoxy or halogen.

55. (new): The production method according to claim 53, wherein either of R^1 and R^2 is hydrogen and the other is *t*-butoxycarbonyl.

56. (new): The production method according to claim 53, wherein reaction step 2 is removal of the protection group for the amino group by acid hydrolysis.

57. (new): The production method according to claim 53, wherein reaction step 2 involves treatment with hydrogen chloride in organic solvent.